PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file BCS 03-5007 PCT	e reference	FOR FURTHER A	CTION	See Form PCT/IPEA/416			
International application	No.	International filing date	(day/month/year)	Priority date (day/month/year)			
PCT/EP2004/01209	. 00	21.10.2004		24.10.2003			
C08B30/12, C08B3	• •	titional classification and A23L1/0522	IPC				
Applicant BAYER CROPSCIE	ENCE GMBH						
This report is the Authority under	international prel Article 35 and tran	iminary examination r smitted to the applica	eport, established by to nt according to Article	his International Preliminary Examining 36.			
		ANNEXES, comprisi	**				
a. 🗆 sent to th	e applicant and to	the International Bure	eau) a total of sheets,	as follows:			
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.							
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as Indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This report contains indications relating to the following items:							
☑ Box No. I	Basis of the opini	ion .	•				
☐ Box No. II							
☐ Box No. III Non-establishment of opinion with regard to novelty, inventive			e step and industrial applicability				
☐ Box No. IV	☐ Box No. IV Lack of unity of invention						
⊠ Box No. V	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
☐ Box No. VI	Certain documen						
☐ Box No. VII		the international app					
Box No. VIII Certain observations on the international application							
Date of submission of the	demand		Date of completion of the	nis report			
07.07.2005			18.10.2005	•			
Name and mailing address of the international preliminary examining authority:			Authorized Officer	September Filmers, e.			
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d			Smeets, D	()			
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Ciges only.							

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/012090

			_					
	Box No.	I Basis of the rep	ort					
1.		With regard to the language, this report is based on the international application in the language in which it filed, unless otherwise indicated under this item.						
	whic □ ir □ p	 □ This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of: □ international search (under Rules 12.3 and 23.1(b)) □ publication of the international application (under Rule 12.4) □ international preliminary examination (under Rules 55.2 and/or 55.3) 						
2.	have bee	pplication, this report is based on <i>(replacement sheets which</i> onse to an invitation under Article 14 are referred to in this is report):						
	Description	on, Pages						
	1-26		as originally filed					
	Claims, N	lumbers						
	1-10		as originally filed	•				
	□ a sec	quence listing and/or	any related table(s) -	see Supplemental Box Relating to Sequence Listing				
3.		The amendments have resulted in the cancellation of: ☐ the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/figs ☐ the sequence listing (specify): ☐ any table(s) related to sequence listing (specify):						
4.	had not b Suppleme .	een made, since the ental Box (Rule 70.2) ne description, pages ne claims, Nos. ne drawings, sheets/lite sequence listing (y have been consider (c)). igs) the amendments annexed to this report and listed below ed to go beyond the disclosure as filed, as indicated in the cify):				
	* If i	tem 4 applies,	some or all of t	hese sheets may be marked "superseded."				

INTERNATIONAL PRELIMINARY REPORT **ON PATENTABILITY**

International application No. PCT/EP2004/012090

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

1-10

Inventive step (IS)

Yes: Claims

Claims No:

1-10

Industrial applicability (IA)

Yes: Claims No:

1-10 Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

PCT/EP2004/012090

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: US 2003/094172 A1 (BENGS HOLGER ET AL) 22 May 2003 (2003-05-22)

D2: US 2003/004332 A1 (BAUERLEIN MICHAEL ET AL) 2 January 2003 (2003-

01-02)

D3: DE 198 60 375 A (AVENTIS RES & TECH GMBH & CO) 6 July 2000 (2000-

07-06)

Novelty - Article 33(1) and (2) PCT

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1-10 is not new in the sense of Article 33(2) PCT.

According to the description of the present application, page 5, lines 20, the invention relates to the fact that water-insoluble linear poly-alpha-1,4 glucans as described in D1-D3, are already resistant starches before being retrograded. However, a feature relating to the omission of the retrogradation step is not disclosed in any way in independent claim 1 on file. Therefore, D1-D3 anticipate the subject-matter of claims 1-9.

The subject-matter of claim 10 is already disclosed in tables 1-3 of D1. From said tables, it can be seen that resistant starch content of the starting material is already 58-65%.

Even with the restriction that the RS content should be at least 70%, the following remarks are made:

As the starting material described in D1 (tables) is identical to the water-insoluble linear poly-alpha-1,4 glucans of the present application (same preparation method), it is unclear why the resistant starch content of the glucans of the present application is higher. The only explanation would be that essential information about the preparation method of the linear poly-alpha-1,4 glucans of the present application is missing from the claims.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/EP2004/012090

Inventive step - Article 33(1) and (3) PCT

The question whether the application involves an inventive step is only of relevance once novelty of an independent claim has been established.